

IOT PLATFORMS – CHALLENGES AT SCALE

1

Customers demanding reduced cost of deployment, increased longevity of device and battery, and more efficient operations.

2

No centralised fleet monitoring to monitor device health and assist with device triage activities at scale, due to reliance on multiple actors across the IoT solution stack.

3

Strong emphasis on need for monitoring of critical infrastructure and renewed focus on cybersecurity, privacy and security regulation compliance.



IOT PLATFORMS – CUSTOMER PAIN POINTS





I want the comfort of knowing my devices are functioning as required and be made aware of any issues before they occur.



Device Registration & Bootstrapping

I want devices to arrive pre-configured and registered to my account so that they can be installed and activated out-of-the-box.

Battery & Data Usage



I want to be able to understand the remaining battery life of my devices in days and weeks, while being able to understand the impact of configuration changes and firmware updates to my estimated battery life.



Fleet Upgrades

I want firmware upgrades to be zero touch and automated like my iPhone, and validation of configuration commands to reduce manual handling and user errors.

Plug & Play



I want to turn up to install site with a pre-built solution, install in the shortest required time, and know that the device is working and connecting correctly before I walk away.



Security & Infrastructure

I want to know my devices and data is secure, remains onshore and can only be accessed by authorised members; whilst leveraging my existing cloud infrastructure so that my costs can scale aligned to my IoT fleet deployment.



Kallipr Kloud Fleet Feature Comparison



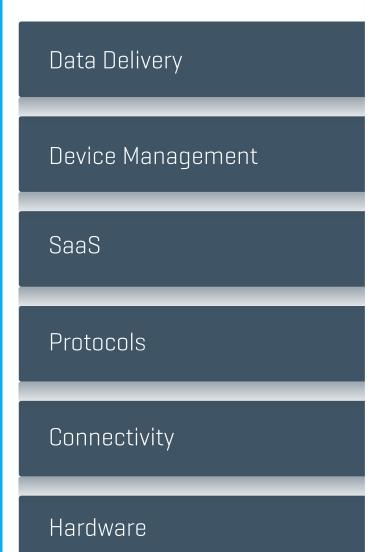
While market device management solutions cater to basic device management needs, Kallipr Kloud goes further to maximise your device's potential and unlock advanced functionalities with our comprehensive solution.

	by Rampi Reood
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Connectivity Redefined Kallipr Kloud

Kallipr Kloud is our innovative cloud solution that seamlessly integrates with our IoT devices.

Features include real-time data monitoring, remote device management and enhanced security protocols.































Captis S1.0

















Captis S1.0 & S2.0







Florian Harper

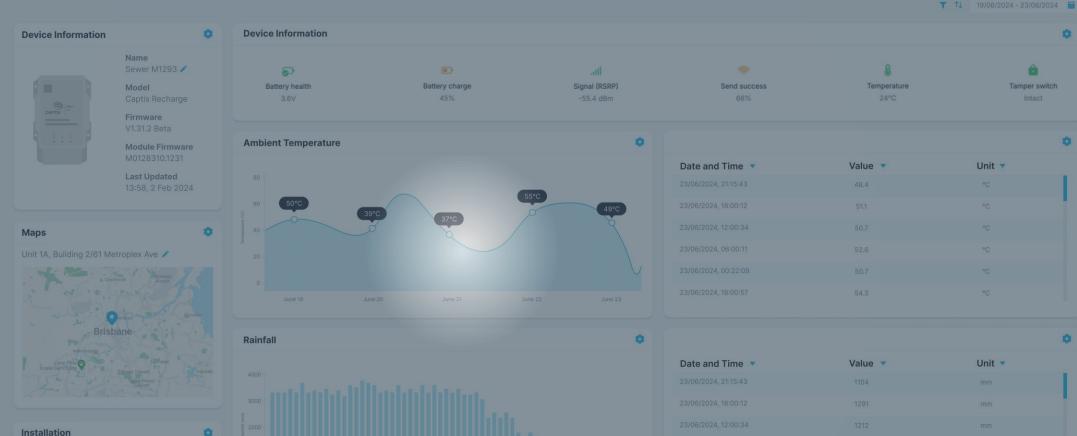






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KALLIPR KLOUD SERIES 2

Foundations for Automation



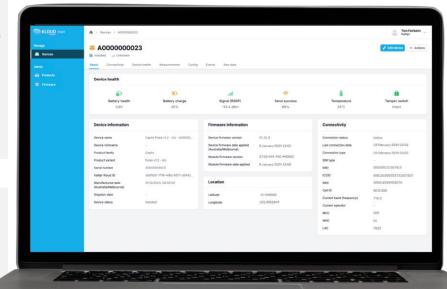
Kallipr Kloud Fleet – Foundations for Automation

Secure Data, Your Way

- Adaptable cloud architecture options for your security requirements, delivered to your endpoint
- Zero-trust architecture to maintain integrity on all device interactions

Streamline Your Operations Centre

- Scale device management via automated commands
- Foolproof validation to safeguard scaled operations



Maximize Asset Life, Reduce Costs

- Real-time battery life modelling to track and optimize maintenance
- Minimize field visits with RAG status alerts, identifying fleet risks in advance

Lay Foundations For The Future

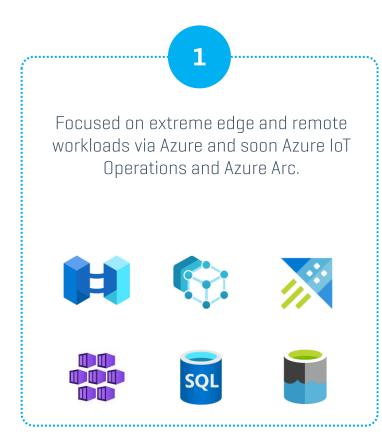
- Energy efficient operationsby moving cloud compute to the Edge
- Al and Automation ready to optimise ROI of digital transformation

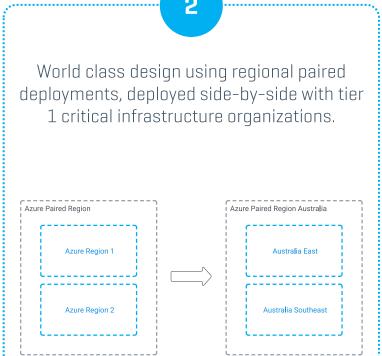




KALLIPR KLOUD FLEET - HYBRID PRIVATE CLOUD

Fleet SaaS, on Azure, for critical infrastructure, and aligned with Microsoft's Operational Technology (OT) strategy.







OT environments with support for Azure services such as Application Insights,
Microsoft Defender for IoT and AI.









KALLIPR KLOUD FLEET - HYBRID PRIVATE CLOUD

Providing a highly secure device management application with regional direct integration via the Azure back plane, ensuring customers can use their existing Azure infrastructure whilst maintaining access and data controls for their fleet whilst using Kallipr Kloud.

Customer's **Azure Cloud Ecosystem**



Public/Private APN Captis connecting to Customer's IoT Hub via

their own secure

network.



User Authentication Azure Entra ID for SSO & Authentication to ensure access is only controlled by the Customer.



InT DPS Secure device provisioning via IoT DPS utilising relevant authentication credentials and IDs.



IoT Hub Secure device communication via IoT Hub utilising relevant authentication credentials and IDs.



Event Hub



Data Storage Route Query controlled by Customer can utilise existing storage services for Device Customer to pass events via Event Hub between Customer Telemetry data and pass to IoT Hub to Kallipr Kloud, i.e., existing Analytics and Insights only share Device Health data. tools.

Platform



Core Platform

Dedicated containerised private endpoints within Kallipr Kloud Backend and Frontend.



Azure Sentinel

SIEM solution options to monitor Kallipr Kloud environment.

Additional Private Security Options



Isolated Resources

Dedicated Customer resources including key vault, time series data and azure data lake.



Dedicated Storage

Segregated Customer Database to store Customer's device health data.



Kallipr Kloud Web Portal

Secure Customer regional access to Kallipr Kloud via App Gateway Portal & API over Azure private network i.e., not nublic internet.





Ultralight Gateway

Ultralight (via QUIC) available on Captis Series S2 and Kallipr Kloud Connectivity Module

